

December 15, 2015

RECEIVED

Kristine Koch U.S. Environmental Protection Agency, Region 10 1200 Sixth Avenue, Suite 900, M/S ECL-115 Seattle, WA 98101 DEC 18 REC'D

OFFICE OF ENVIRONMENTAL CLEANUP

Re: Lower Willamette River, Portland Harbor Superfund Site

USEPA Docket No: CERCLA-10-2001-0240 Monthly Progress Report for November 2015

Dear Ms. Koch:

This monthly status report provides information required by the Portland Harbor Superfund Site Administrative Settlement and Administrative Order on Consent (ASOC).

1. ACTIONS TAKEN IN NOVEMBER 2015

· None.

Deliverables Approved by EPA

· None.

Deliverables Submitted to EPA and Other Actions

- A Portland Harbor executives meeting was held on November 13, 2015.
- On November 23, 2015, the LWG provided EPA a list of items the LWG would like to discuss during the November 24, 2015, call regarding the LWG's September 8, 2015, Feasibility Study (FS) information requests.
- On November 24, 2015, a call was held with EPA to discuss the LWG September 8, 2015, request for information needed to enable LWG review of EPA's revised FS Sections 3 and 4.

Comments/Documents Provided by EPA

- On November 2, 2015, EPA informed the LWG that EPA has removed the preliminary remediation goal (PRG) for hexachlorobenzene from the sediment PRGs for Remedial Action Objective (RAO) 2.
- On November 3, 2015, EPA provided the LWG with information in response to the LWG's September 8, 2015, FS information request numbers 8, 11, 17, 18, 19, 20, 22, 28, 32, 38, and 39.
- On November 18, 2015, EPA met with the Contaminated Sediments Technical Advisory Group (CSTAG) and Nation Remedy Review Board (NRRB) to discuss the Portland Harbor Superfund Site.

USEPA SF 1412914



- On November 23, 2015, EPA notified the LWG that EPA considers the LWG September 8, 2015, FS information request numbers 8, 11, 17, 18, 19, 20, 22, 28, 32, 38, and 39 to be resolved. EPA provided information in response to FS information request numbers 1, 4, 5, 6, 9, 13, 23, 25, 31, and 33.
- On November 24, 2015, EPA provided information in response to the LWG September 8, 2015, FS information request numbers 3, 5, and 14.
- On November 25, 2015, EPA provided the LWG with confirmation that, as discussed during the November 24, 2015, conference call, EPA intends to provide additional information on FS information request numbers 3, 5, 6, 14, 19, 25, 27, 29, and 40.
- On November 25, 2015, EPA provided the LWG with information in response to the LWG September 8, 2015, FS information request numbers 6, 25, and 27.

2. PROBLEMS ENCOUNTERED, ANTICIPATED DELAYS, AND SOLUTIONS

• None.

3. RESULTS OF SAMPLING, TESTS, AND OTHER DATA RECEIVED

None.

4. SCHEDULE FOR THE NEXT FOUR MONTHS

The LWG project team will continue to coordinate with the EPA Remedial Project Managers to finalize the Remedial Investigation report and assist EPA as requested in the review and revision of EPA's Draft Final FS.

Submittal dates for pending documents currently under preparation by the LWG and scheduled for submittal in upcoming months are listed in Table 1: Status of Active LWG Deliverables—Portland Harbor RI/FS. This table includes pending and recently submitted deliverables for which EPA comments or approvals are required. Table 2: Status of LWG Deliverables—Portland Harbor RI/FS reflects the more complete list of LWG submittals and is equivalent to the former Table 1 provided in previous progress reports.

5. DOCUMENTS AND ISSUES AWAITING EPA RESPONSE

EPA comments or approvals have not been received on a number of documents that have been submitted to EPA as required by the ASOC; these submittals are listed in Tables 1 and 2. The LWG requests that EPA provide document approvals for these submittals to verify that the terms of the ASOC are being met and issues are resolved to maintain progress on the RI/FS. Also, the LWG believes that many of the documents listed as future submittals in Table 2 are no longer needed (see Status/Comments column) and requests that EPA review the list and confirm that these documents are, indeed, not needed.



If you have any questions, please give me a call at (503) 972-5014.

Sincerely,

Jennifer Woronets

LWG Administrative Project Coordinator

Copies:

ODEQ (email only)

charge Warnets

NOAA (email only)

Confederated Tribes of Warm Springs (email only)

Confederated Tribes of Yakama Nation (email only)

Confederated Tribes of Siletz (email only)

Confederated Tribes of Umatilla (email only)

Grand Ronde (email only)

Nez Perce Tribe (email only)

Ridolfi (email only)

LWG Management

LWG Repository



Table 1. Status of Active LWG Deliverables - Portland Harbor RI/FS.

Deliverable ¹	Submittal Deadline ²	Status/Comments	EPA Comments Target Date
None.			

Notes:

- ¹ Bolded Deliverables are primary deliverables per Section XIX, Paragraph 4 of ASOC (EPA 2001a). Unbolded Deliverables are secondary deliverables per Section XIX, Paragraph 5 of ASOC. *Italicized Deliverables* do not have stipulated penalty amounts.
- ² Listed Submittal Deadlines are for draft documents. Unless otherwise specified, all final documents are due to EPA 30 days following receipt of comments from EPA.

Deliverable completed and approved by EPA.

Deliverable submitted to EPA and its partners.

Underlining indicates text change from last progress report.



Table 2. Status of LWG Deliverables – Portland Harbor RI/FS.

	Submittal		EPA Comments
Deliverable ¹	Deadline ²	Status/Comments	Target Date
Round 1			
Compilation of Information for	November	Submitted to EPA and DEQ	
Sources Between RM 11 and	2007	11/21/2007. Need written response	
11.6 East Bank of Portland		from DEQ and EPA that upland	
Harbor		sources are under investigation	
		consistent with the Road to the ROD.	
Round 2 Biota			
Revised Round 2 QAPP	11/23/2005	Submitted 11/23/2005; approved with	12/8/2005
Addendum 6: Sampling of		conditions on 12/6/2005; a final QAPP	
Benthic Invertebrate Tissue		addendum is required	
Final Round 2 QAPP	TBD	On 2/9/2006, the LWG submitted a	
Addendum 6: Sampling of		response to EPA's comments on the	
Benthic Invertebrate Tissue		11/23/2005 version of the QAPP	
		addendum. The LWG has not heard	
		back from EPA on that response. The	
		LWG believes that a final QAPP in not	
		required. Need EPA agreement that this	
		final QAPP is not required.	
Hydro/Sed Modeling			
Phase 2 Hydrodynamic Re-	May 2009	Submitted 5/7/2009; EPA comments	
calibration Report		received 7/22/2009	
Groundwater Pathway			
Draft Round 2 Groundwater	4/22/2005	Submitted 4/22/2005; EPA comments	
Pathway Assessment Sampling		received 6/3/2005	
and Analysis Plan			
Round 2 Groundwater Pathway	TBD	Outstanding issues to be addressed in	
Assessment Sampling and	1 1 1 2 1 1	GW Appendix to Draft RI Report.	100
Analysis Plan - Response to	20		
EPA Comments		The contract product of the contract of the co	
Revised Round 2 Groundwater	TBD	Outstanding issues to be addressed in	
Pathway Assessment Sampling		GW Appendix to Draft RI Report.	
and Analysis Plan (including			120
Appendix A - Site Summaries			•
and Appendix B - Pilot Study			
Data Report)			
Round 2 FSP for Sampling of	4/29/2005	Submitted 4/29/2005; EPA comments	
Shoreline Seeps at Human Use		received 6/10/2005	
Beaches			



Deliverable ¹	Submittal Deadline ²	Status/Comments	EPA Comments Target Date
Revised Round 2 FSP for Sampling of Shoreline Seeps at Human Use Beaches	No longer needed	The only seep determined to pose a potentially complete exposure pathway is discharge from Outfall 22B. The existing data from Outfall 22B include the upland COIs and meet the data quality requirements for risk evaluation (Category 1/QA2). Based on the Round 2 Report evaluations, no additional seep data are needed. Therefore, this FSP is no longer needed.	
Revised Round 2 Groundwater Pathway Assessment SAP Attachment 2: Transition Zone Water FSP	3/27/2006	Redline version submitted 3/27/2006; EPA needs to provide final approval of this FSP. This revised FSP was prepared and submitted after the associated field work was completed.	4/28/2006
Revised Round 2 Groundwater Pathway Assessment SAP Attachment 3: Supplement to QAPP Addendum 3	10/7/2005	Submitted 10/7/2005: Conditional approval of proposed changes to the QAPP addendum received from EPA on 9/30/2005. EPA needs to provide final approval of this QAPP. Approval to conduct sampling was provided by EPA on 9/30/2005.	
Revised Transition-Zone Water FSP Addendum 1 Sampling Plans for ExxonMobil, Siltronic, Gasco, and Arkema	3/27/2006	Submitted 3/27/2006. EPA needs to provide final approval of this FSP. Approval to conduct sampling was provided by EPA on 9/30/2005. This revised FSP was prepared and submitted after the associated field work was completed.	
Revised Transition-Zone Water FSP Addendum 2	3/27/2006	Submitted 3/27/2006. EPA needs to provide final approval of this FSP. Approval to conduct sampling was provided by EPA on 10/13/2005. This revised FSP was prepared and submitted after the associated field work was completed.	
Natural Attenuation			
Step 2 Natural Attenuation Evaluation Report	No longer needed		



	Submittal		EPA Comments
Deliverable ¹	Deadline ²	Status/Comments	Target Date
Tech Memos			
Revised TRV Selection TM	10/23/2004	Submitted; EPA comments received	
		3/18/2005. On 6/10/2005, EPA directed	
		the LWG to submit the final TRV	
		Selection TM with the PRE. The final	
		TRV Selection TM was submitted as an	
		appendix to the 9/9/2005 PRE.	
Second Revision Preliminary	1/7/2005	Submitted; EPA comments received	
Risk Evaluation Approach		3/4/2005. On 6/10/2005, EPA directed	
TM		the LWG to submit the final PRE	
		approach TM with the PRE. The final	
		PRE Approach was submitted as an	
		appendix to the 9/9/2005 PRE.	
Comprehensive ERA	6/27/2004	Submitted; EPA comments received	
Approach TM		10/1/2004	
Revised Comprehensive ERA	TBD	In a 1/11/2006 meeting with EPA, the	
Approach TM		LWG proposed deleting this	
		deliverable. The LWG has not heard	
		back from EPA on this proposal. Need	
	1 1 10	EPA agreement that this deliverable is	
		no longer needed.	
Process for Derivation of PRGs	1/20/2005	Submitted; EPA comments received	3/21/2005
TM		6/30/2006; a revised tech memo is not	
	2/2/2027	required.	# 10 10 00 C
Draft Approach to Determining	3/3/2006	Submitted 3/3/2006; EPA comments	5/2/2006
Background for the Portland		received 6/5/2006; revised tech memo	
Harbor Superfund Site		required.	
Revised Approach to	7/20/2006	The revised approach to determining	
Determining Background for		background for the Portland Harbor	
the Portland Harbor Superfund		Superfund Site will be provided in the	
Site		Draft RI Report	
Process for Delineating the		The approach for Delineating the	
Extent of Contamination		Extent of Contamination Upstream and	
Upstream and Downstream of		Downstream of the ISA will be	
the ISA	1/22/2006	provided in the Draft RI Report	
COPC Selection Interim	~1/23/2006	In a 1/11/2006 meeting with EPA, the	
Deliverable	17 / (17 / 17	LWG proposed deleting this deliverable. The LWG has not heard	
		back from EPA on this proposal. Need	
		EPA agreement that this deliverable is	
		no longer needed.	
ECOLOGICAL RISK ASSESS	MENT	no longer needed.	
		I a 1 1 10/0/0005 TD 1	11/0/2005
Ecological Preliminary Risk	9/9/2005	Submitted 9/9/2005; EPA comments	11/8/2005
Evaluation (PRE)		received 4/28/2006, a revised PRE is	
		not required	



	Submittal		EPA Comments
Deliverable ¹	Deadline ²	Status/Comments	Target Date
Round 2 Benthic Assessment Interpretation Report	3/17/2006	Submitted 3/17/2006; EPA comments received 7/6/2006	5/16/2006
Food Web Modeling Report: Evaluating Trophic Trace and the Arnot and Gobas Models for Application to the Portland Harbor Superfund Site	11/4/2005	Submitted 11/4/2005; EPA comments received 3/10/2006	1/3/2006
Revised Ecological Water Screening Levels	5/26/2006	Submitted 5/25/2006; directive EPA comments received 9/15/2006, and a correction to the xylene AWQC on 9/27/06. Additional revisions were submitted on 10/13/2006.	7/9/2006
Feasibility Study			
Literature Survey of Treatability Studies	October 2007	Submitted 10/31/2007. EPA comments received 2/15/08. A revised deliverable is not required, EPA comments indicated that they should be addressed in the FS.	Jan-08
Round 3B (FS) Side-scan Sonar Data Report	September 2008	Submitted 5/18/2009	
Treatment Technologies Screening Table	Early May 2009	Submitted 6/5/2009; EPA comments received 7/9/2009	7/6/2009
Screening of Disposal Facilities for the Feasibility Study Memorandum	Mid May 2009	Submitted 6/18/2009; EPA comments received 7/10/2009	7/2/2009
Early Preliminary Remediation Goals (PRGs)	Late March 2009	Submitted 3/27/2009	
Benthic Toxicity AOPCs Check In Materials	September 2010	Submitted 9/07/2010	
Treatment Technology Evaluation Tools Memo	-	Submitted 03/15/2011; EPA comments received 4/27/2011	
Draft Mitigation Determination Approach for Use in the FS Tools Memo	-	Submitted 03/15/2011; EPA comments received 4/27/2011	
Draft Feasibility Study Costing Approach Tools Memo	-	Submitted 03/15/2011; EPA comments received 4/27/2011	
Draft Identification of "COCs" and Contaminant Mobility Evaluation Criteria For the Draft FS Tools Memo	-	Submitted 03/16/2011; EPA comments received 4/27/2011	
Dredging Water Quality Evaluation Tools Memo	-	Submitted 03/31/2011; EPA comments received 4/27/2011	
Alternatives Screening Materials		Submitted 04/06/2011	
Draft FS Key Elements Presentation		Submitted Materials 06/06/2011 Presentation 06/21 and 06/22/2011	



Deliverable ¹	Submittal Deadline ²	Status/Comments	EPA Comments Target Date
EPA Directed Draft Feasibility Study (FS) Key Work Product	01/15/2012	Submitted 01/16/2012	NA
Derivation of Final Manganese PRG to Replace the Suter and Tsao (1996) Tier II Value in the Portland Harbor Feasibility Study Memo		Submitted 8/01/2014 EPA comments received 10/23/2014 Revised version submitted to EPA 10/29/2014 EPA comments received 11/04/2014 Revised version submitted to EPA 11/05/2014 Final memo submitted 11/12/2014 EPA approval received 7/07/2015	9/1/2014
Draft Feasibility Study (FS) - Electronic Version For Early EPA Team Review	03/20/2012	Submitted 03/20/2012 EPA draft FS Section 1 received 07/08/14 EPA Draft Final FS Section 1 and Appendix A received on 12/18/14 EPA draft FS Section 2 received 2/23/15 EPA revised draft FS Section 1 and 2 received 6/2/15 EPA revised draft FS Section 2 and draft Section 3 received 7/29/15 EPA draft FS Section 4 received 8/18/2015	6/29/2012
Draft Feasibility Study (FS) - Formal Publically Accessible Submittal	03/30/2012	Submitted 03/30/2012 EPA initial comments received 12/18/2012. EPA draft FS Section 1 received 07/08/14 EPA Draft Final FS Section 1 and Appendix A received on 12/18/14 EPA draft FS Section 2 received 2/23/15 EPA revised draft FS Section 1 and 2 received 6/2/15 EPA revised draft FS Section 2 and draft Section 3 received 7/29/15 EPA draft FS Section 4 received 8/18/2015	6/29/2012
General Field/Data/RI Re			
Validated Analytical Results	90 days following completion of each sampling activity		



	Submittal		EPA Comments
Deliverable ¹	Deadline ²	Status/Comments	Target Date
Comprehensive Round 2 Site	2/21/2007	Submitted 2/21/2007. EPA comments	
Characterization Summary and		on Sections 1-9 and Appendices A, B,	
Data Gaps Analysis Report		C, D, F, and G received 1/15/08;	
		comments on Section 10 received	
		3/20/08; comments on Section 11	
		received 5/16/08; comments on	
		Appendix E received 8/8/08. This	
		document was never intended to be	
		revised or approved by EPA; comments	
		will be addressed in the Draft RI	
		Report.	
Draft Sediment Mobility	August 2009	Submitted 8/11/2009	EPA comments not
Testing Data Report			anticipated
Draft Baseline Ecological	Early	Submitted 9/2/2009	11/2/2009
Risk Assessment Report	September	Preliminary EPA comments received	
	2009	12/23/09.	
		EPA comments received 07/16/2010.	
		EPA benthic approach comments	
		received 09/27/2010.	
Draft Baseline Human Health	Late	Submitted 9/23/2009	11/23/2009
Risk Assessment Report	September	Preliminary EPA comments received	
	2009	12/23/09.	
		EPA comments received 07/16/2010.	
Draft Remedial Investigation	Late	Submitted 10/27/2009	12/27/2009
Report	October	EPA comments received 07/16/2010	
	2009		
Benthic Toxicity Reanalysis	Mid	Submitted 11/13/2009	01/13/2009
Technical Memorandum	November	EPA benthic approach comments	
	2009	received 09/27/2010.	
Supporting Electronic	November	Submitted 11/19/2009	01/19/2010
Information for Draft Benthic	2009		
BERA			
Draft Final BHHRA	5/2/2011	Submitted 05/02/2011; EPA comments	7/2/2011
		received 06/22/2012.	
		EPA dispute decision received	
		12/07/12.	
Draft Final BERA	7/5/2011	Submitted 07/01/2011;	9/1/2011
		EPA comments received 07/10/2012.	
		EPA comments received on	
		12/21/2012.	
		EPA comments received on 01/11/2013	
Human Health and Ecological	July 2011	Submitted 07/22/2011	9/22/2011
Risk Management			
Recommendations			



	Submittal		EPA Comments
Deliverable ¹	Deadline ²	Status/Comments	Target Date
Draft Final Remedial	8/29/2011	Submitted 08/29/2011;	10/29/2011
Investigation Report		EPA comments received on Section 1	
		and 2, Appendices A and H 11/30/2012	
		EPA comments received on Section 3	
		02/21/2013	
		EPA comments received on Section 4	
		03/19/2013 EPA comments received on Section 8	
		04/19/2013	
		EPA comments received on Section 9	
		8/16/2013	
		Revised Redline of EPA comments	
		received on Section 9 9/26/2013	
		EPA comments received on Section 7	
		11/05/2013	
		Additional EPA comments received on	
		Section 7 12/19/2013	
		EPA comments received on Section 6	
		05/07/2014	
		EPA comments received on Section 5	
		EPA comments received on Section 10	
		and 11 7/10/2014	
		EPA comments received on the	
		Executive Summary	
		01/13/2015	
		EPA comments and direction to	
		produce draft final RI received 4/27/15	
		LWG submitted electronic version of	
		Draft Final RI 06/12/15	
Final BHHRA	3/28/2013	Submitted: 02/11/2013	4/8/2013
		EPA comments received 02/15/2013	
		EPA conditional approval received on	
		02/26/2013.	
		Final BHHRA posted and hardcopy submitted 03/25/13.	
		EPA provided final approval of the	
		BHHRA on 04/03/13	
		Final BHHRA errata posted 04/12/13.	



Deliverable ¹	Submittal Deadline ²	Status/Comments	EPA Comments Target Date
Final BERA	4/1/2013	Submitted: 04/01/2013;	4/15/2013
Tillal DERA	4/1/2013	EPA comments received 06/07/13;	113/2013
		Revised draft submitted to EPA	
		06/14/13	
		EPA comments received 06/26/13	
		EPA comments received 09/26/13	
		Further revised draft submitted to EPA	
		10/10/13	
		Further revised draft submitted to EPA	
		12/16/13	
		EPA provided final approval of the	
		BERA with the exception of	
		Attachment 1 Part B Communication	
		Log.on 12/20/13	
STORMWATER	2/1/2000	0.1 1. 10/10/2000 771	
Stormwater Loading Check-in	2/1/2009	Submitted 2/18/2009; EPA comments	
Materials		received 5/6/2009	6/20/2010
Revised Stormwater Loading	April	Submitted 04/30/2010; EPA comments	6/30/2010
Calculation Methods	2010	received 08/17/2010	2/21/2011
Final Stormwater Loading		Submitted 01/31/2011: EPA comments	3/31/2011
Calculation Methods		received 03/02/2011	
SEDIMENT		Revised Report Submitted 04/15/2011	
Round 3B Field Sampling Plan:		Submitted 5/4/2007; EPA comments	
Sediment Sampling and Benthic		received 7/25/07. Superseded by the	
Toxicity Testing		11/5/2007 R3B Comprehensive	
Toxicity Testing		Sediment & Bioassay Testing FSP.	
Upriver and Multnomah		Submitted 5/25/2007; EPA comments	
Channel Sediment Evaluation		received 10/11/07. Superseded by the	
and Field Sampling Plan		11/5/2007 R3B Comprehensive	
Technical Approach		Sediment & Bioassay Testing FSP.	
Draft Round 3B Surface and		Submitted 5/25/2007; EPA comments	
Core Sediment FSP		received 8/9/07. Superseded by the	
Preliminary Technical		11/5/2007 R3B Comprehensive	
Memorandum		Sediment & Bioassay Testing FSP.	
Draft Round 3B Erosion Core	August 2007	Submitted 8/29/07; EPA comments	
Sediment FSP Technical		received 10/11/07. Superseded by the	
Memorandum		11/5/2007 R3B Comprehensive	
		Sediment & Bioassay Testing FSP.	
Round 3B QAPP Addendum 10	November	Submitted 12/17/2007. Need EPA	
for Sediment Sampling	2007	approval of this QAPP Addendum.	
Round 3 Sediment Trap		Submitted 06/30/2011	
Deployment Field Report			



Deliverable ¹	Submittal Deadline ²	Status/Comments	EPA Comments Target Date
FATE & TRANSPORT			
Draft Chemical Fate & Transport Model Development and Data Gaps Identification Report	July 2007	Submitted 7/20/2007; EPA comments received 10/15/07. LWG response to comments submitted 1/8/2008.	
F&T Surface Sediment FSP – Addendum to 3B Sediment FSP	December 2007	Submitted 12/10/2007; EPA comments received 1/2/08. 1/16/08 LWG agreed with EPA not to perform the sampling. Need EPA agreement that this deliverable is no longer needed.	
Draft Bioaccumulation Modeling Report		Submitted 7/27/2009	
CULTURAL RESOURCES			
Draft Cultural Resource Survey Report	12/16/2005	Submitted 12/16/2005	2/14/2006; EPA comments not time- critical at this point in the project
BIOLOGICAL ASSESSMENT	•		Land State of the Contract of
Preliminary Draft Site-Wide Biological Assessment - Electronic Version For Early EPA Team Review	3/30/2012	Submitted 03/20/2012	6/29/2012
Preliminary Draft Site-Wide Biological Assessment - Formal Publically Accessible Submittal	3/30/2012	Submitted 03/30/2012	6/29/2012

Notes:

- ¹ Bolded Deliverables are primary deliverables per Section XIX, Paragraph 4 of ASOC (EPA 2001a). Unbolded Deliverables are secondary deliverables per Section XIX, Paragraph 5 of ASOC. *Italicized Deliverables* do not have stipulated penalty amounts.
- ² Listed Submittal Deadlines are for draft documents. Unless otherwise specified, all final documents are due to EPA 30 days following receipt of comments from EPA.

Only deliverables due within the next four months are shown.

Deliverable completed and approved by EPA.

Deliverable submitted to EPA and its partners.

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